Detecting electromagnetic radiation

Abstract

The central idea of the present invention is that the resetting of the energy store associated with the receiver prior to every detection interval and/or prior to every exposure period, during which the energy stored in the energy store is to be changed in accordance with the output signal of the receiver so as to use the state of the energy store following the reception interval as information about the object may be avoided by setting the sensitivity of the receiver (50), which determines the level of the output signal at a specified electromagnetic radiation, higher in at least one instance, and lower in at least one instance between two resetting events (68, 70), or by varying the sensitivity. The noise contribution provided by the resetting operations (68, 70) is hereby avoided, which is why the benefit of the accumulation and/or integration may be exploited across several reception intervals without this noise contribution.

Fig. 2